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Remarks of the AAO president at the opening ceremony of the 2nd International Congress of the Japan Orthodontic Society, Oct. 18, 1988 (Lindquist). 1989;95:261-3 (Special article)

Intrusion; *see* Tooth migration, animal

J

Japan Orthodontic Society

Remarks of the AAO president at the opening ceremony of the 2nd International Congress of the Japan Orthodontic Society, Oct. 18, 1988 (Lindquist). 1989;95:261-3 (Special article)

Jaw abnormalities, animal

Functional orthopedic magnetic appliance (FOMA) II—modus operandi (Vardimon et al). 1989;95:371-87

Jaw relation record

Electromyography of masticatory muscles in three jaw registration positions (Jiménez). 1989;95:282-8

The influence of cephalostatic ear rods on the positions of the head and neck during postural recordings (Greenfield et al). 1989;95:312-8

L

LeFort I osteotomy; *see* Osteotomy

Legal aspects of orthodontic practice

Legal aspects of orthodontic practice: risk management concepts. 1989;95:267-8, 357-9, 445-7, 524-5

Leukotrienes

Leukotrienes in orthodontic tooth movement (Mohammed et al). 1989;95:231-7

Longitudinal studies

The craniofacial morphology in persons with maxillofacial dysplasia (Binder syndrome): a longitudinal cephalometric study of orthodontically treated children (Olow-Nordenram and Thilander). 1989;95:148-58

M

Macaca

Functional orthopedic magnetic appliance (FOMA) II—modus operandi (Vardimon et al). 1989;95:371-87
Periodontal changes after experimentally induced intrusion of the upper incisors in *Macaca fuscata* monkeys (Murakami et al). 1989;95:115-26

Magnetics

Effects of a fixed magnetic appliance on the dentofacial complex (Kalra et al). 1989;95:467-78
Functional orthopedic magnetic appliance (FOMA) II—modus operandi (Vardimon et al). 1989;95:371-87

Malocclusion

A cephalometric study of 32 North American black patients with anterior open bite (Jones). 1989;95:289-96
Mandibular displacement and dentitional changes during orthodontic treatment and growth (Ghafari and Efstratiadis). 1989;95:12-9

Malocclusion, Angle Class I

An American Board of Orthodontics case report: a combined face mask—orthognathic surgical approach in the treatment of skeletal open bite and maxillary deficiency (Paz et al). 1989;95:1-11 (Case rep.)
An American Board of Orthodontics case report (Snyder). 1989;95:451-6 (Case rep.)
An American Board of Orthodontics case report (Fisher). 1989;95:363-70 (Case rep.)
The occurrence of tooth size discrepancies among different malocclusion groups (Crosby and Alexander). 1989;95:457-61

Malocclusion, Angle Class II

An American Board of Orthodontics case report: correction of a severe Class II malocclusion (Regan and Subtelny). 1989;95:192-9 (Case rep.)
An American Board of Orthodontics case report: surgical treatment of adult Class II, Division 2 malocclusion (Hinkle). 1989;95:185-91 (Case rep.)
An American Board of Orthodontics case report (Snyder). 1989;95:91-5 (Case rep.)
Cephalometric changes in Class II, Division 1 cases after orthopedic treatment with the bioactivator (Dahan et al). 1989;95:127-37
A comparison of the Ricketts and Tweed-type arch leveling techniques (Dake and Sinclair). 1989;95:72-8
The effect of the amount of protrusion built into the Bionator on condylar growth and displacement: a clinical study (Op Heij et al). 1989;95:401-9
Effects of a fixed magnetic appliance on the dentofacial complex (Kalra et al). 1989;95:467-78
The influence of cephalostatic ear rods on the positions of the head and neck during postural recordings (Greenfield et al). 1989;95:312-8

The occurrence of tooth size discrepancies among different malocclusion groups (Crosby and Alexander). 1989;95:457-61

Malocclusion, Angle Class II, animal

Functional orthopedic magnetic appliance (FOMA) II—modus operandi (Vardimon et al). 1989;95:371-87

Malocclusion, Angle Class III

An American Board of Orthodontics case report: a combined face mask—orthognathic surgical approach in the treatment of skeletal open bite and maxillary deficiency (Paz et al). 1989;95:1-11 (Case rep.)

Malocclusion, statistics

A multivariate approach to analyzing the relation between occlusion and craniofacial morphology (Keeling et al). 1989;95:297-305

Malpractice

Diagnosis/root resorption/progress monitoring (Machen). 1989;95:267-8 (Legal aspects)

Mandible

Effects of a fixed magnetic appliance on the dentofacial complex (Kalra et al). 1989;95:467-78
Mandibular displacement and dentitional changes during orthodontic treatment and growth (Ghafari and Efstratiadis). 1989;95:12-9

Mandible, growth

Changes in the maxillary and mandibular tooth size-arch length relationship from early adolescence to early adulthood (Bishara et al). 1989;95:46-59
Modeling longitudinal mandibular growth: percentiles for gnathion from 6 to 15 years of age in girls (Buschang et al). 1989;95:60-6

Mandible, surgery

Cause of early skeletal relapse after mandibular setback (Komori et al). 1989;95:29-36
Postretention evaluation of stability and relapse—mandibular arches with generalized spacing (Little and Riedel). 1989;95:37-41

Mandibular condyle

The accuracy of measuring condylion location (Moore et al). 1989;95:344-7
The effect of the amount of protrusion built into the Bionator on condylar growth and displacement: a clinical study (Op Heij et al). 1989;95:401-9
Orthodontics, condylar position, and TMJ status (Gianelly). 1989;95:521-3 (Viewpoint)

Mandibular condyle, animal

Condylar cartilage in the muscular dystrophic mouse (Ghafari and Cowin). 1989;95:107-14

Mask

An American Board of Orthodontics case report: a combined face mask—orthognathic surgical approach in the treatment of skeletal open bite and maxillary deficiency (Paz et al). 1989;95:1-11 (Case rep.)

Masseter muscle

Reliability of maximum static work efforts by the human masseter muscle (Christensen). 1989;95:42-5

Masticatory muscles

Electromyography of masticatory muscles in three jaw registration positions (Jiménez). 1989;95:282-8

Maxilla, abnormalities

An American Board of Orthodontics case report (Snyder). 1989;95:91-5 (Case rep.)

Maxilla, growth

Changes in the maxillary and mandibular tooth size-arch length

Maxilla, growth—cont'd

relationship from early adolescence to early adulthood (Bishara et al). 1989;95:46-59

Maxillary superimposition: a comparison of three methods for cephalometric evaluation of growth and treatment change (Nielssen). 1989;95:422-31

Maxilla, physiology

Labial root torque: effect on the maxilla and incisor root apex (Goldin). 1989;95:208-19

Perioral force measurement by a radiotelemetry device (Kato et al). 1989;95:410-4

Skeletal changes in vertical and anterior displacement of the maxilla with bonded rapid palatal expansion appliances (Sarver and Johnston). 1989;95:462-6

Maxilla, surgery

Postsurgical maxillary movement: a comparison study of bone plate and screw versus wire osseous fixation (Larsen et al). 1989;95:334-43

Maxillofacial development

Changes in the maxillary and mandibular tooth size-arch length relationship from early adolescence to early adulthood (Bishara et al). 1989;95:46-59

Comparison of the dentofacial patterns for native Greek and American-Caucasian adolescents (Argyropoulos and Sassouni). 1989;95:238-49

The craniofacial morphology in persons with maxillonasal dysplasia (Binder syndrome): a longitudinal cephalometric study of orthodontically treated children (Olow-Nordenram and Thilander). 1989;95:148-58

Maxillofacial prosthesis

An American Board of Orthodontics case report: a combined face mask—orthognathic surgical approach in the treatment of skeletal open bite and maxillary deficiency (Paz et al). 1989;95:1-11 (Case rep.)

Medical informatics

A review of clinical research in orthodontics (Tulloch et al). 1989;95:499-504 (Rev. article)

Microscopy, electron, scanning

A 3-year clinical and SEM study of surface changes of carious enamel lesions after inactivation (Årtun and Thylstrup). 1989;95:327-33

Migration; see Tooth migration**Models**

Modeling longitudinal mandibular growth: percentiles for gnathion from 6 to 15 years of age in girls (Buschang et al). 1989;95:60-6

Molar, third

The role of the third molar in the cause of late lower arch crowding: a review (Richardson). 1989;95:79-83 (Rev. article)

Mouth, physiology

Partitioning of ventilation between nose and mouth: the role of nasal resistance (Leiter and Baker). 1989;95:432-8

Mouth breathing

Partitioning of ventilation between nose and mouth: the role of nasal resistance (Leiter and Baker). 1989;95:432-8

Muscular dystrophy

Condylar cartilage in the muscular dystrophic mouse (Ghafari and Cowin). 1989;95:107-14

N**Nose, physiology**

Partitioning of ventilation between nose and mouth: the role of nasal resistance (Leiter and Baker). 1989;95:432-8

O**Occlusion**

The effect of the amount of protrusion built into the Bionator on condylar growth and displacement: a clinical study (Op Heij et al). 1989;95:401-9

A multivariate approach to analyzing the relation between occlusion and craniofacial morphology (Keeling et al). 1989;95:297-305

Orthocan

Physical and mechanical properties of elastomers in orthodontic positioners (Warunek et al). 1989;95:388-400

Orthodontic appliances; see also Activator appliances

Cephalometric appraisal of patients treated with fixed lingual orthodontic appliances: historic review and analysis of cases (Fulmer and Kufitenc). 1989;95:514-20 (Special article)

A clinical study of amount of adhesive remaining on enamel after debonding, comparing etch times of 15 and 60 seconds (Kinch et al). 1989;95:415-21

A clinical study of maxillary canine retraction with a retraction spring and with sliding mechanics (Ziegler and Ingervall). 1989;95:99-106

The effect on the bonding strength of orthodontic brackets of fluoride application after etching (Bishara et al). 1989;95:259-60 (Clin. corner)

An evaluation of a fluoride-releasing, visible light-activated bonding system for orthodontic bracket placement (Sonis and Snell). 1989;95:306-11

An in vitro investigation of lingual bonding (Chumak et al). 1989;95:20-8

Retention—retainers may be forever (Parker). 1989;95:505-13 (Clin. corner)

Skeletal changes in vertical and anterior displacement of the maxilla with bonded rapid palatal expansion appliances (Sarver and Johnston). 1989;95:462-6

A three-cycle in vivo evaluation of reconditioned direct-bonding brackets (Buchwald). 1989;95:352-4 (Clin. corner)

A 3-year clinical and SEM study of surface changes of carious enamel lesions after inactivation (Årtun and Thylstrup). 1989;95:327-33

A visible light-activated direct-bonding material: an in vivo comparative study (O'Brien et al). 1989;95:348-51

Orthodontic appliances, activator; see Activator appliances**Orthodontics**

Remarks of the AAO president at the opening ceremony of the 2nd International Congress of the Japan Orthodontic Society, Oct. 18, 1988 (Lindquist). 1989;95:261-3 (Special article)

Osteotomy

Cause of early skeletal relapse after mandibular setback (Komori et al). 1989;95:29-36

Postsurgical maxillary movement: a comparison study of bone plate and screw versus wire osseous fixation (Larsen et al). 1989;95:334-43

P**Palatal expansion technique**

Skeletal changes in vertical and anterior displacement of the maxilla with bonded rapid palatal expansion appliances (Sarver and Johnston). 1989;95:462-6

Pediatrics

An American Board of Orthodontics case report: orthodontic treatment of a patient born with a severe right unilateral

- cleft lip and palate (Snyder and Subtelny). 1989;95:273-81 (Case rep.)
- A cephalometric assessment of children with fetal alcohol syndrome (Gir et al). 1989;95:319-26
- Periodontal diseases**
Periodontal disease in orthodontic practice (Machen). 1989;95:445-7 (Legal aspects)
- Physical anthropology; see Anthropology, physical**
- Posture**
The influence of cephalostatic ear rods on the positions of the head and neck during postural recordings (Greenfield et al). 1989;95:312-8
- Premolar**
Changes in facial profile during orthodontic treatment with extraction of four premolars (Drobocky and Smith). 1989;95:220-30
- Professional practice**
Periodontal disease in orthodontic practice (Machen). 1989;95:445-7 (Legal aspects)
Professional liability insurance (Machen). 1989;95:357-9 (Legal aspects)
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- Racial groups**
A cephalometric study of 32 North American black patients with anterior open bite (Jones). 1989;95:289-96
Comparison of the dentofacial patterns for native Greek and American-Caucasian adolescents (Argyropoulos and Sassouni). 1989;95:238-49
- Radiography**
Computer-assisted location of reference points in three dimensions for radiographic cephalometry (Brown and Abbott). 1989;95:490-8
- Research design**
A review of clinical research in orthodontics (Tulloch et al). 1989;95:499-504 (Rev. article)
- Retrognathism**
An American Board of Orthodontics case report (Snyder). 1989;95:91-5 (Case rep.)
- Retrospective studies**
Cephalometric appraisal of patients treated with fixed lingual orthodontic appliances: historic review and analysis of cases (Fulmer and Kufnec). 1989;95:514-20 (Special article)
- Review articles**
Review articles. 1989;95:79-83, 250-8, 499-504
- Reviews**
Reviews. 1989;95:88-9, 183, 269, 360-1, 448-9, 526-7
- Ricketts technique**
A comparison of the Ricketts and Tweed-type arch leveling techniques (Dake and Sinclair). 1989;95:72-8
- Risk management**
Diagnosis/root resorption/progress monitoring (Machen). 1989;95:267-8 (Legal aspects)
Periodontal disease in orthodontic practice (Machen). 1989;95:445-7 (Legal aspects)
Professional liability insurance (Machen). 1989;95:357-9 (Legal aspects)
Short- and long-term risk management strategies (Machen). 1989;95:524-5 (Legal aspects)
- Root; see Tooth root**

S

- Scanning electron microscopy; see Microscopy, electron, scanning**
- Silicone elastomers**
Physical and mechanical properties of elastomers in orthodontic positioners (Warunek et al). 1989;95:388-400
- Special articles**
Special articles. 1989;95:261-3, 514-20
- Substance P**
Effects of orthodontic force on methionine enkephalin and substance P concentrations in human pulpal tissue (Parris et al). 1989;95:479-89

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- Telemetry**
Perioral force measurement by a radiotelemetry device (Kato et al). 1989;95:410-4
- Temporomandibular joint**
Orthodontics, condylar position, and TMJ status (Gianelly). 1989;95:521-3 (Viewpoint)
- Tensile strength**
Physical and mechanical properties of elastomers in orthodontic positioners (Warunek et al). 1989;95:388-400
- Tomography, x-ray computed**
Computer-assisted location of reference points in three dimensions for radiographic cephalometry (Brown and Abbott). 1989;95:490-8
- Tooth, growth**
Changes in the maxillary and mandibular tooth size-arch length relationship from early adolescence to early adulthood (Bishara et al). 1989;95:46-59
- Tooth abnormalities**
Maxillary canine-lateral incisor transposition—orthodontic management (Shapira and Kufnec). 1989;95:439-44
The occurrence of tooth size discrepancies among different malocclusion groups (Crosby and Alexander). 1989;95:457-61
- Tooth eruption**
The effect of cortisone on the eruption rate of root-resected incisors in the rat (Teng et al). 1989;95:67-71
- Tooth extraction**
Changes in facial profile during orthodontic treatment with extraction of four premolars (Drobocky and Smith). 1989;95:220-30
- Tooth extraction, animal**
The effect of cortisone on the eruption rate of root-resected incisors in the rat (Teng et al). 1989;95:67-71
- Tooth migration, animal**
Periodontal changes after experimentally induced intrusion of the upper incisors in *Macaca fasciata* monkeys (Murakami et al). 1989;95:115-26
- Tooth movement, minor**
Leukotrienes in orthodontic tooth movement (Mohammed et al). 1989;95:231-7
Retention—retainers may be forever (Parker). 1989;95:505-13 (Clin. corner)
- Tooth root**
Diagnosis/root resorption/progress monitoring (Machen). 1989;95:267-8 (Legal aspects)
Labial root torque: effect on the maxilla and incisor root apex (Goldin). 1989;95:208-19
- Torque**
Labial root torque: effect on the maxilla and incisor root apex (Goldin). 1989;95:208-19

Tweed technique, modified

A comparison of the Ricketts and Tweed-type arch leveling techniques (Dake and Sinclair). 1989;95:72-8

V

Ventilation

Partitioning of ventilation between nose and mouth: the role of nasal resistance (Leiter and Baker). 1989;95:432-8

Vertical dimension

The influence of cephalostatic ear rods on the positions of the head and neck during postural recordings (Greenfield et al). 1989;95:312-8

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Viewpoint. 1989;95:521-3

